





- d) State Faraday's first law of electrolysis. When 0.3956 g of copper was deposited by a current of 0.4 ampere in 50 mins. What is ECE of copper ?
- e) Explain electrorefining of blister copper with diagram.
- f) Define pH. Calculate pH of acidic solution having  $2.5 \times 10^{-3}$  gram ions per litre of hydrogen ion concentration.

3. Attempt **any four** of the following :

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- a) Describe electromagnetic separation process with example.
  - b) Define :
    - i) Tensile strength
    - ii) Soldering
    - iii) Castability
    - iv) Machinability.
  - c) Explain fusion method for preparation of alloy with example.
  - d) Describe vulcanisation of rubber. Why is rubber vulcanised ?
  - e) Distinguish between thermosoftening and thermosetting plastics.
  - f) Define thermocole. Give its properties and applications.
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